ECHA's conference
Safer Chemicals 21-22 May 2019

Case study: How to improve safe use

Marianne Lyngsaae
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SAFE USE - UNDER A CIRCULAR ECONOMY

Life cycle of a substance

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

CIRCULAR ECONOMY
Closing the loop
AN AMBITIOUS EU CIRCULAR ECONOMY PACKAGE
CASE STUDY

Project managed by Kemi & Life Science Denmark, a member of Fecc

Options and workability of Circular chemistry in the upper parts of the supply chains?

New loops possible for chemical substances?

Can parts of the chemical waste from one Downstream User be used safely (!) – as a resource - by another company?
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**Distributors** = platforms helping to facilitate sustainable solutions & cooperation across chemical value chains

Companies offering potential circular resources (Chemical substances)

*Participants: Pharmaceutical companies, Recycler*

Companies showing interest in circular resources (Chemical substances)

*Participants: Formulators of paints and de-icers, company with internal waste water treatment*
THE LEGISLATIVE ENVIRONMENT

Two pillars, Two starting points

Waste framework directive / waste policy

- Focus on reducing waste, more recovery from waste and on correct handling.
- Waste should, in general, be kept separate to eliminate risks towards man and environment, it should be assured that it ends up in the right place.

REACH / CLP in the Chemical legislation

- SAFE USE is central
- Chemicals may during their use get into contact with the surrounding environment and with humans - during manufacturing, in various industrial uses such as in mixtures and articles, by professionals or by consumers.

A boundary

- REACH Art. 2.2 says that Waste - as defined in EU directive on waste - “…is not a substance, preparation or article”.
- Meaning: - when a substance is not defined as waste, then the chemical legislation applies. And vice versa.
THE LEGISLATIVE ENVIRONMENT

Two pillars, Two starting points

Once classified as waste …

Waste framework directive
Hazardous waste classified via company environmental permit
  - As Hazardous waste for destruction
  - As Hazardous waste for recovery

Defined Roles & responsibilities
  - Waste producer/waste holder
  - Dealer/Broker/Waste transporter
  - Companies doing waste treatment - recovery

For a supply chain via these defined roles:
CLP’ish classification of hazardous waste
No SDS communications prescribed for this chain?
(6) New loop for the processing aid as "By-product" can support safe use for the next DU!

(1) New loops for used processing aids classified as "waste for recovery", were seen as inappropriate in view of safe use.

(5) HINT to the first DU: Check the options together with the supervising authority for your environmental approval – See if "By-product" definition can be applied.

(2) Processing aids that are not consumed nor transformed during an industrial process and considered waste afterwards, may technically speaking be "By-products".

(4) Not being waste means CLP labeling and communication of REACH compliant e-SDS along a new value chain, for a new loop.

(3) If a processing aid meet the definition of "By-product", it may be regarded as not being waste, says the Waste framework directive.
In front of the use by the first Downstream user

- Purchased high grade processing aid substance supplied with e-ESDS. Quality described in a Technical Specification.

When used by the first Downstream user

- Consider impact from the usage
- Consider environmental permit, waste/non waste status
- Same CLP labeling? Even when an impact does not change the CLP labelig, assess if it otherwise influences the information in received e-SDS. Filter out any ES? New use to be added (less likely for this type of substances)? DU – CSR?
- When non-waste is an option (By-product):
  - Supply and communicate **to the next Downstream user** in compliance with REACH/CLP (e-SDS, CLP label)
In the pipeline…

Project Seminar
September 2019, Copenhagen
(1/2 Day)

Guidance information on
Processing aid substances in a
Circular Economy

Brochure with tips and advice on
how to get started, options to seek
economical support for SME
Thank you for your attention!